

EP 25462 (7)

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 63174406  
PUBLICATION DATE : 18-07-88

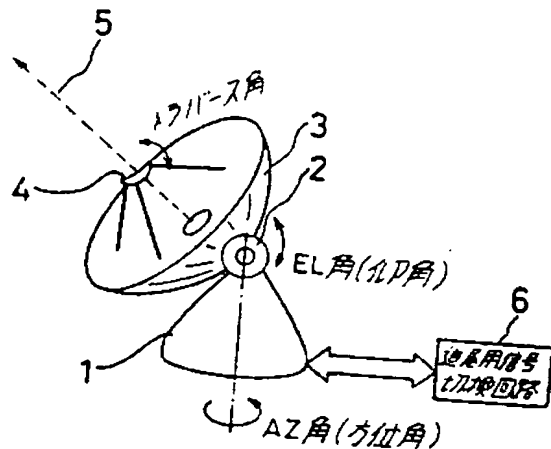
APPLICATION DATE : 13-01-87  
APPLICATION NUMBER : 62007139

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INT.CL. : H01Q 3/08 G01S 7/02 H01Q 3/18  
H01Q 3/20

TITLE : TRACKING ANTENNA SYSTEM



ABSTRACT : PURPOSE: To realize continuous tracking for all loci, by providing a sub reflecting mirror or a first-order horn with movable structure so that a wave radiation axis can be rotated in a traverse direction, in an antenna system of AZ-BL mounting system.

CONSTITUTION: The titled antenna system is constituted of an AZ rotating structure object 1 to rotate an antenna main body in 0~360° around an AZ axis, an EL rotating structure object 2 to rotate the antenna main body around an EL axis, a main reflecting mirror 3, a sub reflecting mirror 4, and a tracking signal switching circuit 6. The sub reflecting mirror 4 is constituted so that the wave radiation axis 5 can be rotated in the traverse direction. And the rotating range of an elevation angle is expanded to a zenith~horizon in a direction opposite to the horizon~zenith of a conventional device in addition to that, and a tracking signal is switched in the circuit 6 so as to control an azimuth, an elevation angle, and a traverse angle respectively so that a floating body can be tracked continuously even in the neighborhood of the zenith.

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